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Jameco Part Number 234086 (1505A-010-100)

Detailed Specifications & Technical Data

1505A Coax - Precision Video Cable for Analog and Digital

For more information please call

1-800-Belden1

See Put-ups and Colors

Description:

20 AWG Solid .032" Bare Copper conductor, Gas-injected Foam HDPE Insulation, Duofoil® and a 95% Tinned Copper Braid Shield, PVC Jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	59/U
AWG	20
Stranding	solid
Conductor Diameter	.032 in.
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Insulation Diameter	.145 in.

OUTER SHIELD:

Outer Shield Type	Tape/Braid

Outer Shield Material :

Layer Number	Trade Name	Type	Material	% Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	Tinned Copper	95

Outer Shield %Coverage	100 %

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.234 in.

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +75°C
Bulk Cable Weight	31 lbs/1000 ft.
Max. Recommended Pulling Tension	47 lbs.

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Min. Bend Radius (Install)	2.5 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMR
CEC/C(UL) Specification	CMG

FLAME TEST:

UL Flame Test	1666 Vertical Shaft
CSA Flame Test	FT4

SUITABILITY:

Suitability - Indoor	All colors
Suitability - Outdoor	Black jacket only
Suitability - Aerial	Black jacket only when supported by a messenger wire

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Plenum Number	1506A

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 +/- 1.5 Ohms
Nom. Inductance	0.107 µH/ft
Nom. Capacitance Conductor to Shield	16.3 pF/ft
Nominal Velocity of Propagation	83 %
Nominal Delay	1.22 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	10.0 Ohms/1000 ft
Nominal Outer Shield DC Resistance	3.8 Ohms/1000 ft

Minimum Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Return Loss (dB)
		5	850	23
		851	3000	21

Nom. Attenuation :

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
Nominal Attenuation	1			.29
	3.58			.55
	5			.63
	7			.74
	10			.87
	67.5			2.05
	71.5			2.1
	88.5			2.2
	100			2.3
	135			2.7
	143			2.8
	180			3.1
	270			3.8
	360			4.4
	540			5.5
	720			6.4
	750			6.5
	1000			7.6
	1500			9.3
	2000			10.9
	2250			11.6
	3000			13.4

Max. Operating Voltage - UL	300 V RMS

NOTES:

Notes	Also available in bundled versions. See 7794A through 7798A. 100% Sweep tested .5 MHz to 3 GHz. Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1505A 0011000	#20 PE/GIFHDPE SH FR PVC	1000	35	BROWN	C
1505A 0015000	#20 PE/GIFHDPE SH FR PVC	5000	165	BROWN	C N
1505A 0021000	#20 PE/GIFHDPE SH FR PVC	1000	35	RED	C
1505A 002500	#20 PE/GIFHDPE SH FR PVC	500	17.5	RED	C
1505A 0025000	#20 PE/GIFHDPE SH FR PVC	5000	165	RED	C N
1505A 0031000	#20 PE/GIFHDPE SH FR PVC	1000	35	ORANGE	C
1505A 0035000	#20 PE/GIFHDPE SH FR PVC	5000	165	ORANGE	C N

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1505A 0041000	#20 PE/GIFHDPE SH FR PVC	1000	35	YELLOW	C
1505A 0045000	#20 PE/GIFHDPE SH FR PVC	5000	165	YELLOW	C N
1505A 0061000	#20 PE/GIFHDPE SH FR PVC	1000	35	BLUE, LIGHT	C
1505A 006500	#20 PE/GIFHDPE SH FR PVC	500	17.5	BLUE, LIGHT	C
1505A 0065000	#20 PE/GIFHDPE SH FR PVC	5000	165	BLUE, LIGHT	C N
1505A 0071000	#20 PE/GIFHDPE SH FR PVC	1000	35	VIOLET	C
1505A 0075000	#20 PE/GIFHDPE SH FR PVC	5000	165	VIOLET	C N
1505A 0081000	#20 PE/GIFHDPE SH FR PVC	1000	35	GRAY	C
1505A 0085000	#20 PE/GIFHDPE SH FR PVC	5000	165	GRAY	C N
1505A 0091000	#20 PE/GIFHDPE SH FR PVC	1000	35	WHITE	C
1505A 0095000	#20 PE/GIFHDPE SH FR PVC	5000	165	WHITE	C N
1505A 0101000	#20 PE/GIFHDPE SH FR PVC	1000	35	BLACK	C
1505A 010500	#20 PE/GIFHDPE SH FR PVC	500	17.5	BLACK	C
1505A 0105000	#20 PE/GIFHDPE SH FR PVC	5000	165	BLACK	C N
1505A N3U1000	#20 PE/GIFHDPE SH FR PVC	1000	35	GREEN, MIL	C
1505A N3U5000	#20 PE/GIFHDPE SH FR PVC	5000	165	GREEN, MIL	C N

C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

Revision Number: 1 Revision Date: 10-22-2003

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